# Supplementary Data

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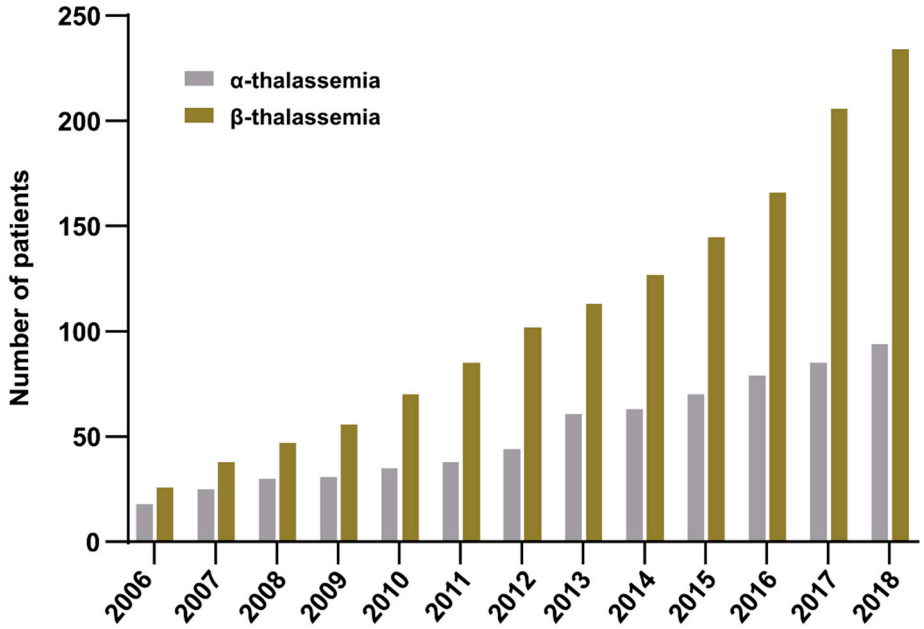



**Figure S1.** The number of patients diagnosed with α-thalassemia or β-thalassemia.

**Table S1.** Transfusion status in thalassemia and comorbidities.

| Comorbidities | Transfusion Status | |
|---|---|---|
| | **Transfusion-Naïve Group** | **Transfusion Group** |
| Diabetes | | |
| (-) | 921 | 300 |
| (+) | 66 | 79 |
| Hypertension | | |
| (-) | 824 | 236 |
| (+) | 163 | 143 |
| Dyslipidemia | | |
| (-) | 888 | 318 |
| (+) | 99 | 61 |
| Atrial fibrillation | | |
| (-) | 974 | 362 |
| (+) | 13 | 17 |
| Myocardial infarction | | |
| (-) | 980 | 371 |
| (+) | 7 | 8 |
| Stroke | | |
| (-) | 954 | 340 |
| (+) | 33 | 39 |
| Heart failure | | |
| (-) | 962 | 353 |
| (+) | 25 | 26 |
| End-stage renal disease | | |
| (-) | 957 | 344 |
| (+) | 30 | 35 |

**Table S2.** Mean age at first marriage in Korea (2016 – 2020) [23].

| Regions | Male | | | | | Female | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **2016** | **2017** | **2018** | **2019** | **2020** | **2016** | **2017** | **2018** | **2019** | **2020** |
| Nationwide | 32.79 | 32.94 | 33.15 | 33.37 | 33.23 | 30.11 | 30.24 | 30.40 | 30.59 | 30.78 |
| Seoul | 33.20 | 33.36 | 33.51 | 33.72 | 33.61 | 31.01 | 31.20 | 31.32 | 31.55 | 31.60 |
| Busan | 33.04 | 33.23 | 33.32 | 33.54 | 33.39 | 30.63 | 30.74 | 30.91 | 31.04 | 31.08 |
| Daegu | 32.67 | 32.78 | 33.13 | 33.36 | 33.08 | 30.27 | 30.40 | 30.51 | 30.62 | 30.67 |
| Incheon | 32.67 | 32.80 | 33.03 | 33.25 | 32.96 | 30.06 | 30.19 | 30.39 | 30.59 | 30.70 |
| Gwangju | 32.94 | 33.08 | 33.28 | 33.48 | 33.38 | 30.14 | 30.30 | 30.40 | 30.65 | 30.68 |
| Daejeon | 32.47 | 32.38 | 32.67 | 32.90 | 33.00 | 29.95 | 29.97 | 30.27 | 30.45 | 30.61 |
| Ulsan | 32.35 | 32.44 | 32.79 | 32.78 | 32.74 | 29.74 | 29.93 | 30.13 | 30.25 | 30.33 |
| Sejong | 32.68 | 32.88 | 32.77 | 33.09 | 33.00 | 29.98 | 30.33 | 30.35 | 30.80 | 30.78 |
| Gyeonggi | 32.77 | 32.89 | 33.10 | 33.35 | 33.19 | 30.21 | 30.30 | 30.52 | 30.74 | 30.83 |
| Gangwon | 32.39 | 32.65 | 32.88 | 33.13 | 32.97 | 29.78 | 29.93 | 30.15 | 30.34 | 30.39 |
| Chungbuk | 32.41 | 32.27 | 32.57 | 32.72 | 32.63 | 29.56 | 29.67 | 29.65 | 29.98 | 30.15 |
| Chungnam | 32.27 | 32.63 | 32.87 | 33.05 | 32.85 | 29.27 | 29.59 | 29.70 | 29.91 | 29.95 |
| Jeonbuk | 32.75 | 32.77 | 33.41 | 33.67 | 33.54 | 29.65 | 29.72 | 30.04 | 30.34 | 30.49 |
| Jeonnam | 32.86 | 33.11 | 33.39 | 33.42 | 33.30 | 29.47 | 29.79 | 29.96 | 30.07 | 30.24 |
| Gyeongbuk | 32.56 | 32.75 | 32.90 | 33.30 | 33.01 | 29.75 | 29.82 | 30.13 | 30.41 | 30.38 |
| Gyeongnam | 32.54 | 32.77 | 32.90 | 33.20 | 33.06 | 29.91 | 30.04 | 30.20 | 30.47 | 30.52 |
| Jeju | 33.19 | 33.36 | 33.72 | 34.04 | 33.44 | 30.42 | 30.45 | 30.79 | 30.99 | 30.92 |

**Table S3.** Mean age of women at birth of first child in Korea (2016 – 2020) [23].

| Regions | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|
| Nationwide | 31.37 | 31.62 | 31.89 | 32.16 | 32.30 |
| Seoul | 32.25 | 32.55 | 32.81 | 33.15 | 33.33 |
| Busan | 31.68 | 31.91 | 32.22 | 32.37 | 32.49 |
| Daegu | 31.41 | 31.54 | 31.71 | 31.94 | 32.08 |
| Incheon | 31.16 | 31.44 | 31.84 | 32.09 | 32.22 |
| Gwangju | 31.04 | 31.35 | 31.57 | 31.69 | 32.07 |
| Daejeon | 31.15 | 31.26 | 31.64 | 32.05 | 32.05 |
| Ulsan | 31.13 | 31.20 | 31.56 | 31.70 | 31.94 |
| Sejong | 31.51 | 31.75 | 32.06 | 32.35 | 32.61 |
| Gyeonggi | 31.46 | 31.73 | 32.01 | 32.24 | 32.39 |
| Gangwon | 30.63 | 30.78 | 30.96 | 31.28 | 31.32 |
| Chungbuk | 30.48 | 30.77 | 31.02 | 31.16 | 31.43 |
| Chungnam | 30.31 | 30.68 | 30.95 | 31.39 | 31.47 |
| Jeonbuk | 30.56 | 30.78 | 31.15 | 31.35 | 31.53 |
| Jeonnam | 30.55 | 30.70 | 31.00 | 31.30 | 31.25 |
| Gyeongbuk | 30.76 | 30.97 | 31.25 | 31.46 | 31.55 |
| Gyeongnam | 31.00 | 31.24 | 31.42 | 31.68 | 31.85 |
| Jeju | 30.93 | 31.25 | 31.56 | 31.87 | 31.83 |